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28. The method of claim 24, wherein the level of the additional signal is adapted to the transmission signal.

29. The method of claim 24, wherein the level of the transmission signal is adapted to the additional signal.

30. The method of claim 24, wherein the alternating voltage of the beat pattern is amplified.

31. The method of claim 24, wherein the detection of the transmission signals occurs by counting the signal extremes that result in the beat pattern.

32. The method of claim 24, wherein the detection of the transmission signals occurs by comparing the integrated signal power from predetermined time intervals of the beat pattern.

33. The method of claim 32, wherein at least one time interval is selected.

34. The method of claim 32, wherein the time intervals are selected both in the chronological midrange and in least one edge range of the beat pattern.

35. The method of claim 24, wherein at least one additional signal is associated to each transmission frequency.

36. The method of claim 24, wherein the frequency of the additional signal is selected between the transmission frequency and a directly adjacent, further transmission frequency.

37. The method of claim 24, wherein the frequency of the additional signal is selected outside the center between two adjacent transmission frequencies.

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38. The method of claim 24, wherein a directly adjacent transmission frequency is selected as the frequency of the additional signal.

39. The method of claim 24, wherein two symmetrically present, equidistant transmission frequencies are selected as the frequency of the additional signal.

40. The method of claim 34, wherein both directly adjacent, equidistant transmission frequencies are selected as the frequency of the additional signal.

41. The method of claim 24, wherein a signal transmitter and the signal receiver are synchronized.

42. The method of claim 24, wherein a radio clock is associated to the signal transmitters and signal receivers.

43. The method of claim 24, wherein the signal transmitters and signal receivers transmit and receive according to a predetermined timing sequence.

44. The method of claim 43, wherein the timing sequence is controlled via a radio clock.

45. The method of claim 24, wherein the transmission frequency is transmitted and received with a right-hand and a left-hand polarization alternating with each other.

46. The method of claim 24, wherein the component is an electrooptical component.

47. The method of claim 24, wherein the digital transmission signals are radio signals.